S/198/61/007/001/008/008
D205/D305

A conference on plates and shells ...

V. Bolotin, A.S. Vol'mir, O.L. Gol'denveyzer, V.M. Dareve'kyy, V. M. Panf'orov (Moscow), A.P. Filin (Leningrad), D.V. Vaynberg, M.O. Kil'cheve'kyy, V.H. Chudove'kyy (Kyyiv), S.N. Kan (Kharkiv), O.P. Prusakov (Dniprope'trove'k), M.Sh. Mikeladze (Tbilisi), A.Ya. Aleksandrov (Novosybirs'k), I.Y. Vorovych (Rostov-on-Don). At the first plenary session Professor A.Ya. Aleksandrov (Novosybirs'k) on the use of multi-layered plates and shells and Professors D.V. Vaynberg and V.H. Chudove'kyy (Kyyiv) on the results obtained in setting-up shell structures in various towns of the Ukrainian SSR. The basic directive of the conference was the mathematical theory of plates and shells. The first section meeting under the direction of Academician H.M. Savin considered, in particular, the general theory of shells, including the behavior of shells under the action of creep, plastic deformation and temperature flow, the theory of layered shells, the statistical theory of shell stability etc. There were 34 speeches in this section. The second section, directed by Professor V.V. Bolo'in, presented 30 speeches on basic questions in the dynamics of plates and shells. The third section was directed

Card 2/3

S/198/61/007/001/008/008
A conference on plates and shells ... D205/D305

by Professor A.C. Vol'mir. There were 33 speeches, mostly dealing with the stressed and deformed states in plates and shells of various forms and under various boundary conditions. Most of the speeches were devoted to elaborating methods of solving statical and dynamical problems of plates and shells under small deflections.

Card 3/3

S/879/62/000/000/050/088
D234/D308

AUTHORS: Surkin, R. G. and Stepanov, S. G. (Kazan')

TITLE: Experimental investigation of stability of spherical segments subjected to an external, uniformly distributed pressure

SOURCE: Teoriya plastin i obolochek; trudy II Vsesoyuznoy konferentsii, L'vov, 15-21 sentyabrya 1961 g. Kiev, Izd-vo AN USSR, 1962, 311-313

TEXT: The authors give the results of experiments carried out on more than 200 segments made of steel, brass, copper and aluminum, 200 mm in diameter, at the Fiziko-tekhnicheskiy institut Kazanskogo filiala AN SSSR (Physicotechnical Institute, Kazan' Branch of the AS USSR). The height at the center varied from 4 to 75 mm. Deflection was measured at 17 different points. The measured parameters are tabulated. All specimens lost their stability suddenly, the depression beginning near an edge and spreading in about 0.02 - 0.07 sec over the whole shell. Four forms of loss of stability,

Card 1/2

S/879/62/000/000/050/088
D234/D308

Experimental investigation of ...

observed with shells of large height when vacuum was produced inside them, are described. There is 1 table.

Card 2/2

L 16742-63 EWP(r)/EWT(m)/BDS AFFTC

S/124/63/000/004/035/064

AUTHOR: Surkin, R. O.; Kuznetsova, L. A.

TITLE: The problem of bending a sloping spherical panel of square plan, with a nonlinear relation between deformation and stress

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 4, 1963, 7, abstract 4V48 (Tr. Konferentsii po teorii plastin i obolochek, 1960, Kazan', 1961, 362-366.)

TEXT: The problem stated in the title is solved on the assumption that between the stress intensity, sigma sub i and the deformation, e sub i, there exists the nonlinear relationship; sigma sub i equals Ee sub i (1 — gamma sub 2 sub i), where E and gamma are constants. The authors use the Bubnov-Galerkin method, with subsequent recourse to a digital electronic computer. A portion of the results obtained are given in tabular form. The effect of nonlinearity with real values of the parameter gamma would seem to be substantial. V. I. Feodos'yev.

[Abstracter's note: Complete translation.]

Card 1/1

SURKIN, R.G. [Surkin, R.H.] - [illegible], STEPANOV, S.G. [Stepanov, S.H.] (Kazan')

Experimental investigation of the stability of spherical segments under external uniformly distributed pressure. Prykl. mekh. 9 no.6:649-658 '63. (MIRA 16:12)

1. Fiziko-tekhnicheskiy institut Kazanskogo filiala AN SSSR.

NAYSHTEYN, S.Ya.; DYATLOVITSKAYA, F.G.; LISOVSKAYA, E.V.; PETROV, Yu.L.; SURKINA, R.M.

Experimental basis for the permissible concentration of chlorophenylchlorobenzene sulfonate in open bodies of water. San.okhr.vod.ot zagr.prom.stoch.vod no.5:145-157 '62.
(MIRA 17:6)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta kommunal'noy gigiyeny.

KOSTOVETSKIY, Ya.I.; LISOVSKAYA, E.V.; DYATLOVITSKAYA, F.G.; SURKINA, R.M.

Experimental basis for the permissible concentration of chloronitroisocyclohexane and dichlorocyclohexane in bodies of water. San.okhr.vod.ot zagr.prom.stoch.vod no.5:94-106 '62. (MIRA 17:6)

1. Ukrainskiy nauchno-issledovatel'skiy institut kommunal'noy gigiyeny.

TSFAS, B.S., dotsent, kand.tekhn.nauk; MATVEYEV, A.P., assistent;
PROVATOROV, Yu.A., student; SHEVCHENKO, V.A., student;
GOLOVNYA, A.V., student; SURKIN, V.I., student

Results of static tension tests of steel cylindrical specimens having circular single and group notches, and of smooth-roll burnished specimens. Sbor.dokl.Stud.nauch.ob-va Fak.mekh.sel'. Kuib.sel' khoz.inst. no. 1:72-78 '62. (MIRA 17:5)

1. Kuybyshevskiy sel'skokhozyaystvennyy institut.

SURKINA, I.D.

Over-all study of respiration and blood circulation during repeated stresses in young runners at short-and-middle distances. Probl. vrach kontr. no.5:240-251 '60. (MIRA 14:3)
(RESPIRATION) (BLOOD—CIRCULATION)
(RUNNING)

[redacted], V.V.; [redacted], I.P.

Use of a spirograph of the open type in the examination of athletes under various types of strain. Nov. med. tekh. no.3: 98-103 '65. (MIRA 19:1)

MOTYLYANSKAYA, R.Ye.; PUL'KINA, I.Ye.; STOGOVA, L.I.; SURKINA, I.D.; FATYUGOVA, L.N.; IVANOVA, M.P.

Comparative analysis of the reaction to repeated specific and nonspecific stresses in weight lifters. Probl. vrach kontr. no.5: 160-175 '60. (MIRA 14:3)

(WEIGHT LIFTING)

SERGEYEV, M.V.; VETROV, I.Ye.; BAZHDOV, A.A., inzh., prepodavatel';
ZAVEL'YEV, S.T., inzh., prepodavatel'; SURKIS, M.N., inzh.,
prepodavatel'; [illegible], B.K., inzh., prepodavatel'; [illegible], V.D.,
inzh., prepodavatel'; FEL'DMAN, N.F., prepodavatel'

Once more about the training of locomotive servicing brigades.
Elek. i tepl. tiag. no.5:44 My '61. (MIRA 14:7)

1. Machal'nik Kiyevskoy tekhnicheskoy shkoly (for Sergeyev).
2. [illegible]tel' machal'nika Kiyevskoy tekhnicheskoy shkoly
(for Vetrov). 3. Kiyevskaya tekhnicheskaya shkola (for
Drozdov, Zavel'yev, Surkis, Bulatov, Dukler, Fel'dman).
(Railroads--Employees)
(Locomotives--Maintenance and repair)

KOBLYAKOVA, Ye.B., kand.tekhn.nauk, ispolnyayushchiy obyazannosti dotsenta; SURKO, L.A., inzh.

Application of the theory of sheath construction in designing patterns for knit goods. Nauch.trudy MTILP no.18:105-122 '60. (MIRA 15:2)

1. Kafedra tekhnologii shveynogo proizvodstva Moskovskogo tekhnologicheskogo instituta legkoy promyshlennosti.
(Knit goods) (Dressmaking--Pattern design)

SURKO, P.G., gornyy inzh.

Overcoming difficulties in the use of cutter-loaders with hydraulic feed. Ugol' Ukr. 3 no.2:37-39 F '59. (MIRA 12:3)
(Coal mining machinery)

ALSHINBAYEV, M.R.; AMELIN, V.P.; ANDRIANOVA, O.V.; GASIYEV, Zh.; DEGRAF, G.A.; INKARBEKOV, A.B.; KOLOMYTSEV, I.V.; KOLTUSHKIN, I.S.; MALAKHOV, V.P.; MONASTYRSKIY, A.O.; REZNIKOV, B.N.; SAKHAROV, I.V.; SENNIK, V.K.; SOSNIN, V.A.; SURKO, V.I.; SURKOV, Ye.P.; SYRLYBAYEV, S.N.; USIKOV, N.V.; UCHAYEV, A.F.; SHESTOPALOV, Ye.V.; SHERMAN, R., red.; GOROKHOV, L., tekhn. red.

[Study manual for a machinery operator] Uchebnik-spravochnik mekhanizatora. Alma-Ata, Kazsel'khozgiz, 1963. 326 p. (MIRA 16:12)

1. Alma-Ata, Kazakhskiy gosudarstvennyy sel'skokhozyaystvennyy institut. Fakul'tet mekhanizatsii. 2. Sotrudniki fakul'teta mekhanizatsii Kazakhskogo gosudarstvennogo sel'skokhozyaystvennogo instituta (for all except Sherman, Gorokhov). (Agricultural machinery)

VASIL'TSOV, V.D.; VOLODARSKIY, L.M.; VOLCHENKO, M.Ya.; GALETSKAYA, R.A.; IROV, N.I.; KARINYA, L.F.; KONOVALOV, Ye.A.; MATVIYEVSKAYA, E.D.; PETRESKU, M.I.; RUDAKOV, Ye.V.; SAYFULINA, L.M.; SKVORTSOVA, A.I.; SOKOLOVA, N.M.; SOTNIKOVA, I.A.; STOLPOV, N.D.; SURKO , Yu.V.; TEN, V.A.; TRIGUBENKO, M.Ye.; FIRSOVA, Yu.V.; SHABUNINA, V.I.; YUMIN, M.N.; RYABUSHKIN, T.V., doktor ekon. nauk, otv. red.; ALAMPIYEV, P.M., red.; PAK, G.V., red.; GERASIMOVA, D., tekhn.red.

[Economy of socialist countries, 1960-1962] Ekonomika stran sotsializma, 1960-1962gg. Moskva, Izd-vo "Ekonomika," 1964. 261 p. (MIRA 16:12)

1. Akademiya nauk SSSR. Institut ekonomiki mirovoy sotsialisticheskoy sistemy.
(Communist countries--Economic conditions)

LEWANDOWSKA-ROGOZINSKA, Danuta; SURKONT, Wanda

Conservative treatment of bronchiectasis. Pediat. Pol. 40 no.5: 505-507 My '65.

SURKOV, A.

Coal loader at work in the storage yard. Tyl i snab.Sov.Voor.Sil 21 no.1:84-86 Ja '61. (MIRA 14:6)
(Coal handling machinery)

SURKOV, A., polkovnik

Building of underwater bridges. Voen. vest. 40 no.11:74-77 N '60. (MIRA 14:11)

(Military bridges)

STEPANOV, V.P.; KENZIN, F.A.; SURKOV, A.D.

Tectonics of the northern dome in the Tatar Arch based on geophysical prospecting data. Geol. nefti i gaza 9 no.9:29-33 S '65. (MIRA 18:9)

1. Kazanskaya geofizicheskaya ekspeditsiya.

SPIRIDONOV, V.; SURKOV, A.F., kand. sel'skokhoz. nauk; DOBRYAKOVA, G.

Continuous multisectional cottage-cheese producers. Biul. tekh.-ekon. inform. Gos. nauch.-issl. inst. nauch. i tekh. inform. 17 no.2:58-60 '64. (MIRA 17:6)

SURKOV, A.G., inzh.

Carrying capacity of transportation units in coal mines.
Izv.vys.ucheb.zav.; gor.zhur. no.7:93-100 '60.
(MIRA 13:7)

1. Khar'kovskiy inzhenerno-ekonomicheskiy institut. Rekomendovana kafedroy ekonomiki i organizatsii gornogo proizvodstva.
(Mine haulage)

NEZHENTSOV, Vadim Vasil'yevich; SIVYY, Vladimir Borisovich; SURKOV, Adol'f Gavrilovich; MIROSHNICHENKO, V.D., red. izd-va; OVSEYENKO, V.G., tekhn. red.

[Economics and organization of mine haulage]Ekonomika i organizatsiia shakhtnogo transporta. Moskva, Gosgortekhizdat, 1962. 199 p. (MIRA 15:9)

(Mine haulage)

SURKOV, A.G., kand.ekonom.nauk

Cost of maintaining workings while filling longwalls of steeply pitching seams with rock. Izv.vys.uchev.zav.;gor.zhur. 7 no. 4:88-91 '64. (MIRA 17:7)

1. Khar'kovskiy inzhenerno-ekonomicheskiy institut. Rekomendovana kafedroy ekonomiki i organizatsii gornogo proizvodstva.

SURKOV, A.G., kand. ekonom. nauk; SAVCHENKO, B.G., inzh.

Potential for reducing the use of labor in steeply pitching cutter-loader mined longwalls. Izv.vys.ucheb.zav.;gor.zhur. 7 no.[illegible]43 '64. (MIRA 17:12)

1. Khar'kovskiy inzhenerno-ekonomicheskiy institut. Rekomendovana kafedroy ekonomiki i organizatsii gornogo proizvodstva.

[illegible], A. I., [illegible], N. N., and MARTYNOV, A. D.

Kontrol' shlitsevykh soedinenii. Moskva, Mashgiz, 1948. 172 p. diagrs.

Control of splined joints.

DLC: TJ184.M285

1: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

SURKOV, A.I.

Unit for mechanization of development and second mining (from "Mine and Quarry Engineering" May 1956, "Engineering and Mining Journal" March 1956). Gor. shur. no.3:59-60 My '57. (MLRA 10:4)
(United States--Mining machinery)

SURKOV, A. I., Cand Tech Sci -- (diss) "Effect of production in the vicinity of shafts on the distribution of stresses around vertical mineshafts." Moscow, 1960. 16 pp; with charts; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Mining Inst im I. V. Stalin); 200 copies; price not given; printed on duplicating machine; (KL, 50-60, 134)

SURKOV, A.I., insh.

Effect of shaft bottom workings on stress distribution around vertical mine shafts. Shakht.stroi. 4 no.7:17-20 Jl '60. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy marksheyderskiy institut. (Shaft sinking) (Rock pressure)

FEDOTOV, A.P., inzh.; SURKOV, A.I., inzh.

Study of the rock pressure in front of a development face. [Trudy] VNIMI no.40:41-47 '61. (MIRA 14:12)
(Rock pressure) (Mining engineering)

SURKOV, A.I. , kand.tekhn.nauk; BELYAKOV, V.D., inzh.

Study of the stress state of an interlayer with coaxial and noncoaxial arrangement of pillars. [Trudy] VNIMI no.45:310-314 '62.
(MIRA 16:4)

(Mining engineering) (Strains and stresses)

SURKOV, A.I., kand.tekhn.nauk; IYEVLEV, G.A., inzh.; BELYAKOV, V.D., inzh.

Distribution of pressures in a shaft support with an uneven thickness and an uneven load. Trudy VNIMI no.46:75-82 '62. (MIRA 16:5)

(Mine timbering)

SURKOV, A.I., kand. tekhn. nauk; IYEVLEV, G.A., inzh.

Studying the stressed state of the rock massive around the chambers in a heavy and inclined pitching ore body. [Trudy] VNIMI no.47:47-58 '62 (MIRA 17:7)

FEDOTOV, A.P., inzh.; SURKOV, A.I., inzh.

Investigation of the stressed state of rocks in front of the face in development workings. Shakht. stroi. 8 no.4 84-5 Ap '64
(MIRA 17:7)

L 41330-66 EWT(l) SW(m)/EWP(w) IJP(c) EM

ACC NR: AP6019926 (N) SOURCE CODE: UR/0122/66/000/006/0018/0021

AUTHOR: Zhukovskiy, V. S. (Candidate of technical sciences, Lecturer); Surkov, A. I. (Candidate of technical sciences); Morozov, B. A. (Doctor of technical sciences)

ORG: None

TITLE: Using the net-point method for determining stresses in parts with complex shapes

SOURCE: Vestnik mashinostroyeniya, no. 6, 1966, 18-21

TOPIC TAGS: stress analysis, stress concentration, stress distribution

ABSTRACT: Expressions are given for calculating stresses in parts of various configurations. The net-point method is used for calculating stresses in flat parts. An example is given for using this method to calculate stresses in a blooming mill frame. The frame was assumed to be loaded only vertically, horizontal forces being disregarded as insignificant. The stress curves obtained by the net point method are compared with results for a flat frame model studied by the photoelastic method. The two methods show satisfactory agreement. Although the net-point method is normally used for calculations where the parts are uniform in thickness, it may be used for approximate stress determination in parts of nonuniform thickness as well. Orig. art. has: 6 figures, 1 table, 8 formulas.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 007/ OTH REF: 001

Card 1/1 11b

L 06587-67 EWT(l)/EWT(m)/EWP(w) IJP(c) EM/RM

ACC NR: AP6029859 SOURCE CODE: UR/0032/66/032/008/0991/0993

AUTHOR: Surkov, A. I.; Monakhov-Il'in, G. P.; Nikitin, A. M.

ORG: All-Union Scientific Research and Construction Design Institute of Metallurgical Machine Building (Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut metallurgicheskogo mashinostroeniya)

TITLE: Determination of stress in complex thin-walled structures by a photoelastic method

SOURCE: Zavodskaya laboratoriya, v. 32, no. 8, 1966, 991-993

TOPIC TAGS: stress analysis, photoelasticity, optical material, optical coating, polariscope, epoxy resin, temperature dependence

ABSTRACT: A quantitative stress analysis was made of a metallic part with a photoelastic coating, and of models of complex thin-walled structures made from optically sensitive material. The operation procedure and construction details of a unidirectional polariscope are given. The polariscope was built from a polarization attachment, a PK-6 comparometer, and a KPK or SKK-2 compensator. Tests were made on a steel model of a converter support wheel which was covered with a photoelastic coating composed of 100 parts by wt of ED-6 epoxy resin, 30 parts of maleic anhydride, and 0.156 parts of dimethyl aniline. For a set of given time-temperature setting cycles the elastic modulus

UDC: 620.171.5

Card 1/2

L 00507-67
ACC NR: AP6029859

of the polymerized coating was 40,000 kg/cm^2 and the optical constant was 8.9 kg/cm^2, for a 2 mm coating and a stress in the steel part of 1000 kg/cm^2, one strip was formed. A special procedure on a polished glass surface and partially set for 3.5 hr at 80°C. The sheet was then stripped of, bent to fit the metal component, and placed in an oven for final setting of the epoxy. The set coating was glued to the metal with a cold setting adhesive of the following composition: 100 parts by wt of ED-5 epoxy resin, 20 parts of dibutyl phthalate, and 15 parts of polyethylamine. Thin walled models of optically active material were internally covered with a reflecting type coating and stressed in a hydraulic press. This type of study permitted stress measurements to be made on variable thickness cross sections, or on one model for different stress conditions; retesting was done on the same model after annealing. Orig. art. has: 3 figures.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 002

Card 2/2

ACC NR: AP6033519 SOURCE CODE: UR/0413/66/000/018/0154/0155

INVENTOR: Khabarov, A. V.; Kozlov, V. S.; Morozov, B. A.; Myrsov, V. K.; Shevchenko, B. P.; Tomilin, A. A.; Votyakov, I. A.; Surkov, A. I.

ORG: None

TITLE: A hydraulic press with weight distribution on the base components. Class 58, No. 186283 [announced by the Kolomna Heavy Machine Tool Building Plant (Kolomenskiy zavod tyazhelogo stankostroyeniya)]

SOURCE: Izobret prom obraz tov zn, no. 18, 1966, 154-155

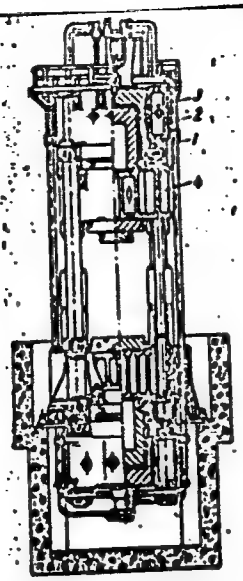
TOPIC TAGS: hydraulic equipment, metal forming press

ABSTRACT: This Author's Certificate introduces a hydraulic press with weight distribution for the base components. The installation contains a stand in the form of columns connected by crossbeams, a movable frame of similar construction located inside the stand, a lower working cylinder mounted in the lower crossbeam of the movable frame, and an upper working cylinder. Misalignment of the press under the effect of eccentric loads is prevented by mounting the upper working cylinder in the upper crossbeam of the stand with rigid connection of the plunger for this cylinder to the upper crossbeam of the movable frame.

UDC: 621.226

Card 1/2

ACC NR: AP6033519



1--upper working cylinder; 2--upper crossbeam of the stand;
3--plunger; 4--uppercrossbeam of the movable frame

SUB CODE: 13/ SUBM DATE: 06Aug65

Card 2/2

BATALIN, S.A., dotsent; SURKOV, A.L., inzh.

Magnitude of the air supply ratio in planning coal mine ventilation. Izv.vys.ucheb.zav.; gor.zhur. no.11:71-73 '58.
(MIRA 12:8)

1. Tomskiy politekhnicheskiy institut (for Batalin). 2. Vostochnyy nauchno-issledovatel'skiy institut po bezopasnosti rabot v gornoy promyshlennosti.
(Mine ventilation)

BATALIN, S.A., kand.tekhn.nauk; SURKOV, A.L., inzh.

Spreading the use of mechanical ventilation of mines.
Bezop.truda v prom. 4 no.9:23-25 S '60. (MIRA 13:9)
(Mine ventilation)

MYASNIKOV, Anatoliy Afanas'yevich. Prinimali uchastiye: DUDIN, I.V., inzh.; SATAROV, V.N., inzh.; SURKOV, A.L., inzh.; CHERNYAK, O.I., inzh.; AYRUNI, A.T., otv. red.; SHIRENSKIY, M.M., red.izd-va; OVSEYENKO, V.G., tekhn. red.

[Ventilation of mine workings with various coal mining systems] Provetrivanie gornykh vyrabotok pri razlichnykh sistemakh razrabotki ugol'nykh plastov. Moskva, Gosgortekhizdat, 1962. 219 p. (MIRA 15:9)

(Mine ventilation)
(Coal mines and mining)

SURKOV, A.L., inzh.

Using the pressure and suction fan method of ventilation.
Ugol' 37 no.2:47-49 F '62. (MIRA 15:2)

1. Vostochnyy nauchno-issledovatel'skiy institut po bezopasnosti rabot v gornoy promyshlennosti.
(Mine ventilation)

SUSHOV, A.L.

Condition of the ventilation in stopes with a large pitch of caving. Nauch. soob. VostNII no.3:32-38 '63.
(MIRA 17:5)

PYKHTIN, P.; SURKOV, B.

Liquified gas as fuel for motor vehicles. Avt. transp. 38 no. 5:54 My '60. (MIRA 14:2)

1. Saratovskiy avtotrest.
(Motor vehicles—Engines (Compressed gas)

PYKHTIN, P.; SURKOV, B.

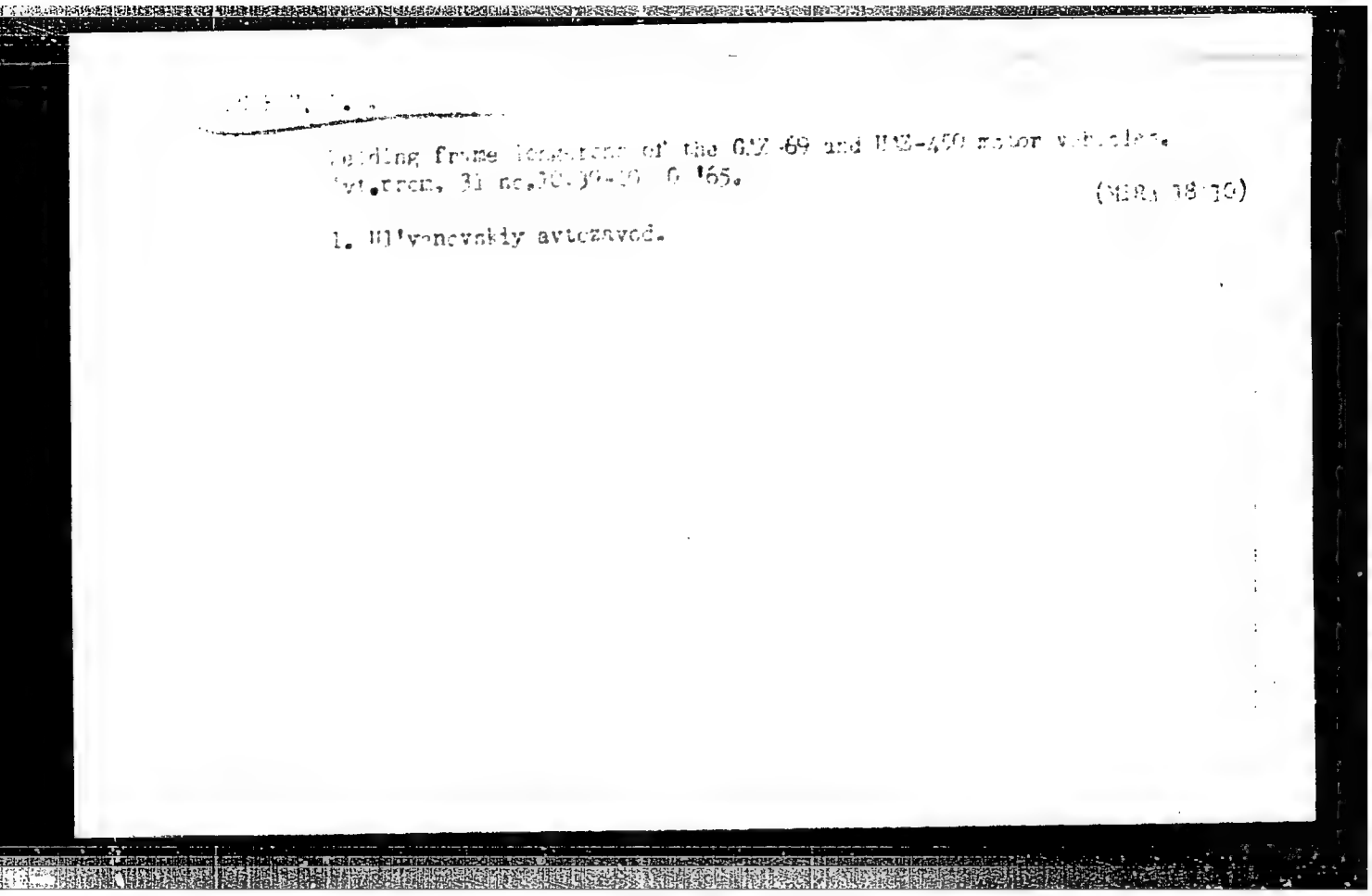
Retreading tires. Avt.transp. 38 no.6:27 Je '60. (MIRA 14:4)

1. Saratovskiy avtotrest.
(Motor vehicles--Tires)

SURKOV, B.Ye.

Mechanization and automation of plants manufacturing precast reinforced concrete products in the territory of the Kuybyshev Economic Council. Bet. i shel.-bet. no.8: Ag '60. (MIRA 13:8)

1. Glavnyy mekhanik stroitel'nogo upravleniya Kuybyshevskogo sovnarkhoza. (Kuybyshev Province--Precast concrete) (Automatic control)



Welding frame [illegible] of the GAZ-69 and UAZ-450 motor vehicles. Avtoprom, 31 no.10:30-[illegible] O '65. (MIRA 18:10)

1. Ul'yanovskiy avtozavod.

ACC NR: AR6028762 SOURCE CODE: UR/0269/66/000/006/0057/0057

AUTHOR: Surkov, E. P.

TITLE: On the photometric profiles of sunspots

SOURCE: Ref. zh. Astronomiya, Abs. 6.51.449

REF SOURCE: Solnechnyye dannyye, no. 9, 1965, 61-63

TOPIC TAGS: sunspot, photometric analysis, photometry, solar photosphere

TRANSLATION: The analysis of observations performed by V. Ye. Stepanov (see *RZh Astr.*, no 9, 5781, 1958) reveals that the photometric profiles of the same sunspot relating to different bands of the continuous spectrum differ to some extent. However, the difference disappears when a non-dimensional system of coordinates is introduced. In such a system, the intensity I is expressed in fractions of the intensity of the sunspot center I_0, and the unit distance across the sunspot is the distance between the sunspot center and the point of the photometric profile $I = 2I_0$. The photometric profiles of the sunspot expressed in a system of non-dimensional coordinates are identical ("affine"), for various λ. The affinity of the profiles leads to the concept of a submerged field of sunspot radiation in the radiation field of the photosphere, similar to the concept of a submerged jet in hydrodynamics. The photometric profiles of sunspots in non-dimensional coordinates change substantially from one spot to another; this accounts for the multiplicity of various types of sunspots. V. Chistyakov.

SUB CODE: 03

Card 1/1 UDC: 523.746

ACC NR: AR6035545 SOURCE CODE: UR/0269/66/000/010/0051/0052

AUTHOR: Surkov, E. P.

TITLE: Sunspot energy balance

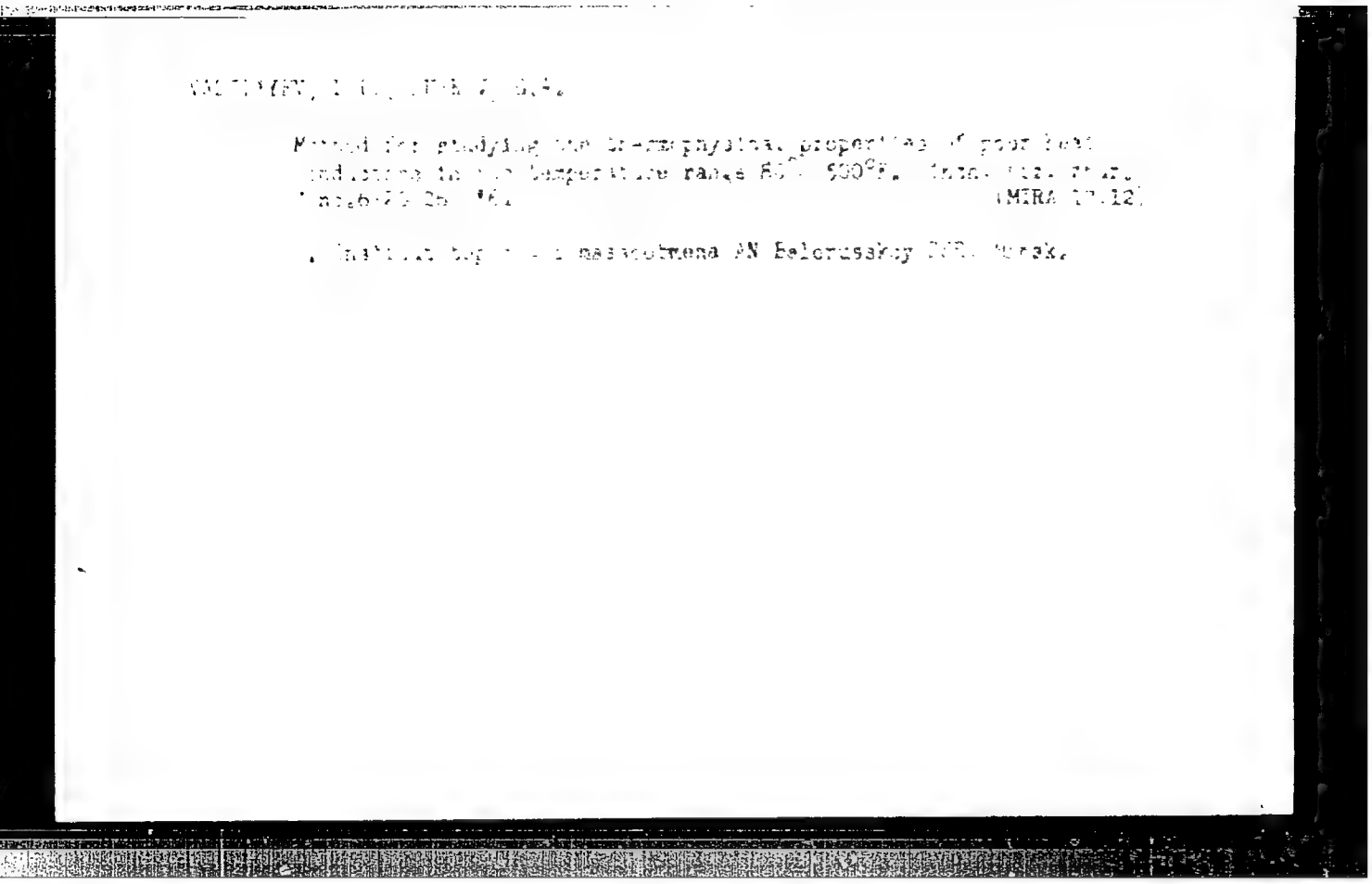
SOURCE: Ref. zh. Astronomiya, Abs. 10.51.382

REF SOURCE: Solnechnyye dannyye, no. 1, 1966, 63-69

TOPIC TAGS: sunspot, solar photosphere, sunspot energy balance

ABSTRACT: The ratio of brightnesses in the spot and in the photosphere has been measured by means of a photoelectric attachment fitted in the focal plane of a Newtonian chamber (diameter of solar image 17 cm) of an ATsU-5 telescope at the Ussuri solar station. Since June 1965, 30 groups of spots located at various distances from the center of the disk have been investigated. For each group, a table gives the values of the area of the group, the areas of the photosphere sector radiant flux of which is equal to the radiation flux from the spot minus the flux from the surrounding bright ring, and the ratio between the bright ring and spot areas. The mean value of this ratio was found to be 4. The mean intensity of the spot is

Card 1/2 UDC: 523.746



L 53572-65 T/I /EPA(s)-2/EPF(n)-2/EWG(v)/EWR/EWA(l) Pe-5/Pe-4/Pt-7
Pu-4 WW

ACCESSION NR: AP5017249 UR/0170/64/000/007/0080/0086

AUTHOR: Surkov, G. A.; Krylovich, B. I.

TITLE: Application of integral transformations to the solution of problems of heat conductivity with a moving boundary

SOURCE: Inzhenerno-fizicheskiy zhurnal, no. 7, 1964, 80-86

TOPIC TAGS: heat conductivity, integral transform

ABSTRACT: An approximate solution is given to a number of problems of nonstationary heat conductivity with moving boundaries. The cases of a semi-infinite space and an infinite plate of a certain thickness with various boundary conditions on its moving surface are considered. Integral transformations were used to solve the problems. It was assumed that the liquid or gas phase that forms on the moving surface is removed from the surface. Orig. art. has: 32 formulas.

ASSOCIATION: Institut teplo- i massoobmena AN BSSR, Minsk (Institute of Heat and Mass Transfer, AN BSSR)

SUBMITTED: 01Feb64 ENCL: 00 SUB CODE: TD, MA
NR REF SOV: 005 OTHER: 000 JPRS

Card 1/1

SURKOV, G. A.; KRYLOVICH, V. I.

"The approximate solution of unsteady heat-conduction problems with a moving boundary by the method of integral transformations."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 May 1964.

Inst of Heat & Mass Transfer, AS BSSR.

VOLOKHOV, G.M.; IVASHKEVICH, E.V.; SURKOV, G.A.

Nonstationary method for determining thermal characteristics of nonmetallic materials. Inzh.-fiz. zhur. 7 no.12:39-44 D '64
(MIRA 18:2)

1. Institut teplo- i massoobmena AN BSSR, Minsk.

...ENT(d)/ENT(1)/ENT(m)/

...solution of unsteady-...

...with a moving boundary, Fourier heat conduction, Laplace transform, unsteady heat ...

...The unsteady-state Fourier heat conduction equation was solved by using ...

$$W_0\left(\mu_n \frac{r}{R_1}\right) = Y_1(\mu_n) J_0\left(\mu_n \frac{r}{R_1}\right) - J_1(\mu_n) Y_0\left(\mu_n \frac{r}{R_1}\right),$$

for a hollow cylinder with a moving internal boundary. The initial and boundary

Card 1/2

L 43185-65
ACCESSION NR: AP5020776

conditions are given by

$$\left.\frac{\partial t(r,\tau)}{\partial r}\right|_{r=R_1} = -\frac{i_1}{\lambda}.$$

$t(r, \tau)_{r=R_1} = \varphi_2(\tau)$. The heat balance equation at the moving

... general temperature-time solutions

... elements corresponding to ... transforms. Orig. art. has: ... equations.

ASSOCIATION: Institut teplo- i massoobmena AN BSSR, g. Minsk (Institute of Heat- and Mass-Transfer, AN BSSR)

SUBMITTED: 08Feb64 ENCL: 00 SUB CODE: ME, TD

NO REF SOV: 002 OTHER: 000

Card 2/2

UR/0170/65/008/004/0473/0478

AUTHOR: Surkov, G. A.

TITLE: Solution of nonstationary heat problems for hollow spheres with movable interior boundary

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 8, no. 4, 1965, 473-478

[illegible] value problem, heat

[illegible] with a [illegible] surface. Up [illegible] described by

$$\frac{\partial t}{\partial \tau} = a \left(\frac{\partial^2 t}{\partial r^2} + \frac{\partial t}{\partial r} \right), \quad r > R_1, \quad \tau > 0,$$

$$t(r, \tau)_{\tau=0} = 0, \tag{2}$$

$$\left.\frac{\partial t(r, \tau)}{\partial r}\right|_{r=R_1} = -\frac{q_1(\tau)}{\lambda}, \tag{3}$$

$$s(\tau) \left.\frac{\partial t}{\partial r}\right|_{r=R_1} + \beta(\tau) t(r, \tau)_{r=R_1} + \gamma(\tau) = 0. \tag{4}$$

Card 1/2

L 43d96-65

ACCESSION NR: AP5010077

... the time determining the beginning of motion of the boundary, which then ... to the law ... during which the description of the system ... determined by the ... allit ... of ...

... A. Sirkov ...

ASSOCIATION: Institut teplo- i massoobmena, AN BSSR, Minsk (Institute for Heat- and Mass-Exchange, AN BSSR)

SUBMITTED: 15Jun64 ENCL: 00 SUB CODE: TD, MA

NO REF SOV: 002 OTHER: 000

Card 2/2 CC

L 32900-66 EWT(m)/T/EWP(w)/EWP(t)/ETI JD

ACC NR: AP6023831 SOURCE CODE: UR/0250/66/010/001/0022/0025

74
B

AUTHOR: Surkov, G. A.

ORG: Institute of Heat and Mass Transfer, AN BSSR (Institut teplo- i massoobmena AN BSSR)

TITLE: Determination of the thermophysical properties of materials as functions of temperature

SOURCE: AN BSSR, Doklady, v. 10, no. 1, 1966, 22-25

TOPIC TAGS: thermodynamic property, heat conductivity, heat capacity, coordinate system, function analysis, temperature dependence

ABSTRACT: The thermophysical properties of a symmetrical body are determined mathematically as functions of temperature. The density of the body is considered to be independent of temperature, while the heat conductivity and heat capacity are dependent on the space coordinates and time. A temperature field is constructed in the usual manner by known formulas, and the temperature dependence of heat conductivity and heat capacity are derived. This paper was presented by Academician A. V. Lykov, AN BSSR. Orig. art. has: 34 formulas. [JPRS]

SUB CODE: 20 / SUBM DATE: 08Mar65

Card 1/2

0945 1563

ACC NR: AT7000378

$$\frac{\partial t}{\partial \tau} = a(\tau)\left(\frac{\partial^2 t}{\partial N^2} + \frac{k-1}{N}\frac{\partial t}{\partial N}\right) + A(\tau), \quad (R_0 < N < R_1); \qquad (1)$$

$$t(N, \tau)|_{\tau=0} = \psi(N); \qquad (2)$$

$$\lambda(\tau)\frac{\partial t(N, \tau)}{\partial N}\bigg|_{N=R} = -q_0(\tau); \qquad (3)$$

$$\xi(\tau)\frac{\partial t(N, \tau)}{\partial N}\bigg|_{N=R_1} + \theta(\tau)t(N, \tau)|_{N=R_1} + \zeta(\tau) = 0. \qquad (4)$$

Here N is the space coordinate; k = 1,2,3 for a plate, a cylinder, and a sphere, respectively; $q_0(\tau)$ is the density of the heat flux moving toward the movable boundary. The article proceeds to a solution of the problem by the method of integral transformations for the three cases of a plate, a cylinder, and a sphere. The formulas derived can be applied also to a number of other one-dimensional problems, depending on the system of coordinates and on the boundary conditions (the physical parameters, the boundary conditions, and the strength of the heat sources can all be a function of the time). Orig. art. has: 43 formulas.

SUB CODE: 20/ SUBM DATE: 08Jun66/ ORIG REF: 003/ OTH REF: 001

Card 2/2

SURKOV, O.I.

Conference on economic problems on the Chernovitsy line. Avtom., telem. i sviaz' 2 no.7:17 Jl '58. (MIRA 11:6)

1. Zamestitel' nachal'nika Chernovitskoy distantsii signalizatsii i svyazi L'vovskoy dorogi.
(Railroads--Signaling--Congresses)

SURKOV, G.I., inzh.

Communication workers of the Chernovtsy district. Avt., telem. i sviaz' 5 no.1:19-20 Ja '61. (MIRA 14:3)

1. Chernovitskaya distantsiya signalizatsii i svyazi L'vovskoy dorogi.
(Chernovtsy region— Railroads—Signaling)

SMIRNOV, G.V.

SOV/144-59-5-13/14

AUTHORS: Deryugin, I.F., Assistant, Kuybyshev Polytechnical Institute
Lukutsov, P.T., Senior Lecturer, Tomsk Polytechnical Institute
Assistant [illegible], Tomsk Polytechnical Institute
Smirnov, G.V., Candidate of Technical Sciences, Docent, Kuybyshev Polytechnical Institute
Senior Lecturer.

TITLE: An Installation for the Displacement of a Betatron Electromagnet

PERIODICAL: Izvestiya Vysshikh uchebnykh zavedeniy, Elektromekhanika, 1959, Nr 5, pp 110 - 113 (USSR)

ABSTRACT: In practice it is often necessary to displace the betatron electromagnet both in the vertical and horizontal directions, and also to carry out a rotation about a horizontal axis. The authors state that Western literature (Refs 1 - 4) does not give sufficient detail of how this is carried out. The Tomsk Polytechnical Institute has therefore designed and built an installation which may be used to displace the betatron electromagnet in the above way.

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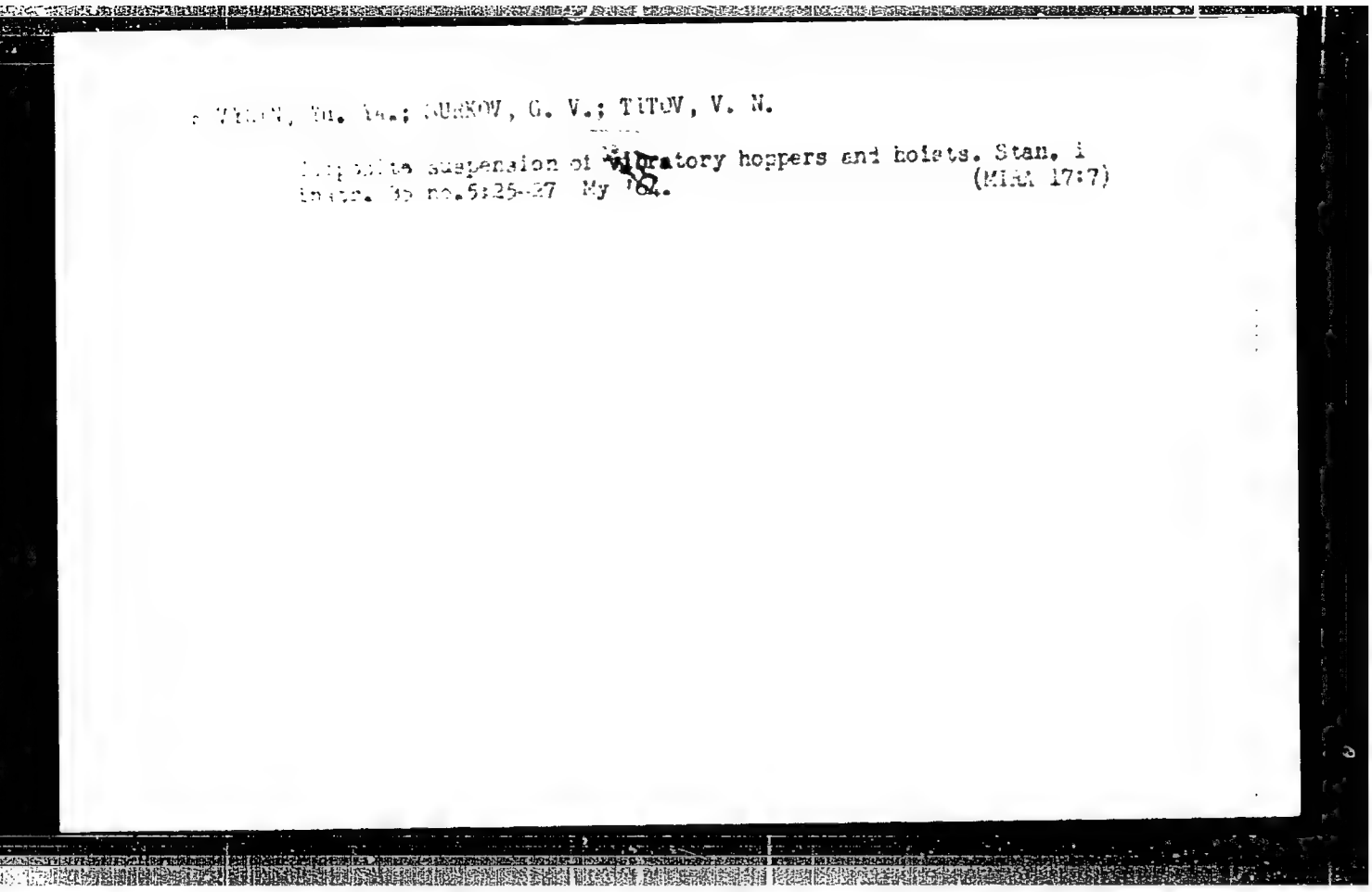
The magnet is raised or lowered (Figure 1) with the aid of motor driven screws 1. It may be rotated with the aid of another motor driven screw 7 and displaced in a horizontal direction on a pair of rails on which the wheels 2 run. The maximum vertical displacement is 1000 mm and the displacement can be carried out at the rate of 0.56 m/min. The maximum angular displacement of the electromagnet is 60° and the maximum horizontal displacement is unlimited. The rate of the angular displacement is 0.124 - 0.106 rev/min and the rate of the horizontal displacement is 0.55 m/min. The weight of the installation is 3.5 tons. There are 2 figures and 5 references, of which 3 are English, 1 is German and 1 is Soviet.

ASSOCIATION: Kafedra prikladnoy mekhaniki, Tomskiy politekhnicheskiy institut (Chair of Applied Mechanics, Tomsk Polytechnical Institute)

Card 2/2



[illegible], Yu. Ya.; SUSKOV, G. V.; TITOV, V. N.

[illegible] suspension of vibratory hoppers and bolets. Stan. i
[illegible] 35 no.5:25-27 My '65. (MIRA 17:7)

KOVYRIN, Yu.Ya.; SURKOV, G.V.

Factors having an effect on the unit metal content in springs of resonance vibration equipment. Fiz.-tekh. probl. razrab. pol. iskop. no.5:115-118 '65. (MIRA 19:1)

1. Politekhnicheskiy institut, Tomsk.

AKSHAN, N.M.; VILENSKIY, L.I.; GORBUNOV, N.G.; GUBSKIY, V.N.; GURVICH, M.D.; LATYSHEV, Yu.M.; LEVONTIN, L.I.; LIVSHITS, T.G.; LOGINOVA, M.K.; LUR'YE, D.A.; LYANDRES, G.D.; MIROSHNICHENKO, G.K.; MOGILEVSKIY, B.Ya.; NEMKOVSKIY, M.I.; ORLEANSKIY, Ya.P.; SAVITSKIY, A.N.; SIMMA, S.F.; SURKOV, G.Z.; SHMYGUL', B.P.; SHUBIN, V.P.; DONSKOY, Ye.Ye., red.izd-va; KAL'NITSKIY, R.Ya., red.izd-va; ZAMAKHOVSKIY, L.S., tekhn.red.

[Mechanization and automation in the machinery industry] Mekhanizatsiia i avtomatizatsiia v stankostroenii. Khar'kov, Khar'kovskoe obl.izd-vo, 1958. 119 p. (MIRA 13:2)

1. Kharkov. Institut "Giprostanok." 2. Direktor instituta "Giprostanok" (for Orleanskiy).
(Machinery industry--Technological innovations)
(Automation)

SURKOV, K.S., inzh.

Considering the effect of thread rigidity on its tension in pulling threads around needles. Izv.vys.ucheb.zav.; tekh.leg.prom. no.5: 116-118 '58. (MIRA 12:2)

1. Leningradskiy tekstil'nyy institut imeni S.M. Kirova.
(Knitting machinery)

SURKOV, K.S., inzh.

Two types of interaction between the thread and the rod. Izv. vys. ucheb. zav.; tekh. leg. prom. no.4:138-142 '59. (MIRA 13:2)

1.Leningradskiy tekstil'nyy institut im. S.M. Kirova. Rekomendovana kafedroy teoreticheskoy mekhaniki.
(Friction) (Textile machinery)

SURKOV, K.S., inzh.

Dynamometer for investigating the mechanical properties of yarn at various rates of deformation. Izv.vys.ucheb.zav.; tekh.leg.prom. no.4:70-75 '60. (MIRA 13:10)

1. Leningradskiy tekstil'nyy institut imeni S.M. Kirova. Rekomendovana kafedroy tekstil'nogo materialovedeniya.
(Yarn--Testing) (Dynamometer)

ACC NR: AT6024284

Table 1.

Parameter	Circuit component				
	Tube	Pulse transformer	Inductance	Capacitor	Resistance
Failure rate λ_k	$2.4 \cdot 10^{-6}$	$0.3 \cdot 10^{-6}$	$0.1 \cdot 10^{-6}$	$0.07 \cdot 10^{-6}$	$0.08 \cdot 10^{-6}$
Reliability factor K_k	30	1.62	1.25	0.875	1.0

into account their manufacturing and operating costs. The authors derive an expression for finding the failure rate of individual units for which the cost of a unit is minimum taking into account the cost of the entire computer complex. Orig. art. has: 7 formulas and 2 tables.

SUB CODE: 09/14/ SUBM DATE: none/ ORIG REF: 002

Card 2/3

ACC NR: AT6022249 SOURCE CODE: UR/0000/66/000/000/0057/0064

AUTHOR: Belov, B. I.; Ovchinnikov, V. A.; Surkov, L. V.

ORG: none

TITLE: Practical algorithms for finding optimum redundancy

SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchennaya Dnyu radio. 22d, 1966. Sektsiya elektronno-vychislitel'noy tekhniki. Doklady, Moscow, 1966, 57-64

TOPIC TAGS: computer technique, computer programming, applied mathematics, computer design

ABSTRACT: To keep a balance between large amounts of computer circuit redundancy and the cost, size, and weight of computers the problem of optimum redundancy must be solved. Three methods of solution are offered. With the method of maxima with constraints the minimum cost of the system may be found for the given survival probability assured by a corresponding degree of redundancy, or the maximum probability of survival may be found for the given cost of redundancy. The flow chart using this method is provided. A better method involves linear programming where the optimum redundancy is given as a function of all variables (i.e., cost, size, and weight). The practical implementation of this method is, however, difficult. The best procedure is the method of the steepest descent which gives results in the form of multiple redundancy. Orig. art. has: 1 formula and 2 figures.

SUB CODE: 09/ SUBM DATE: 26Apr66

Card 1/1

ACC NR: AT6024286 SOURCE CODE: UR/2976/66/000/005/0201/0210

AUTHOR: Titov, M. A.; Surkov, L. V.; Ivanov, S. R.

ORG: none

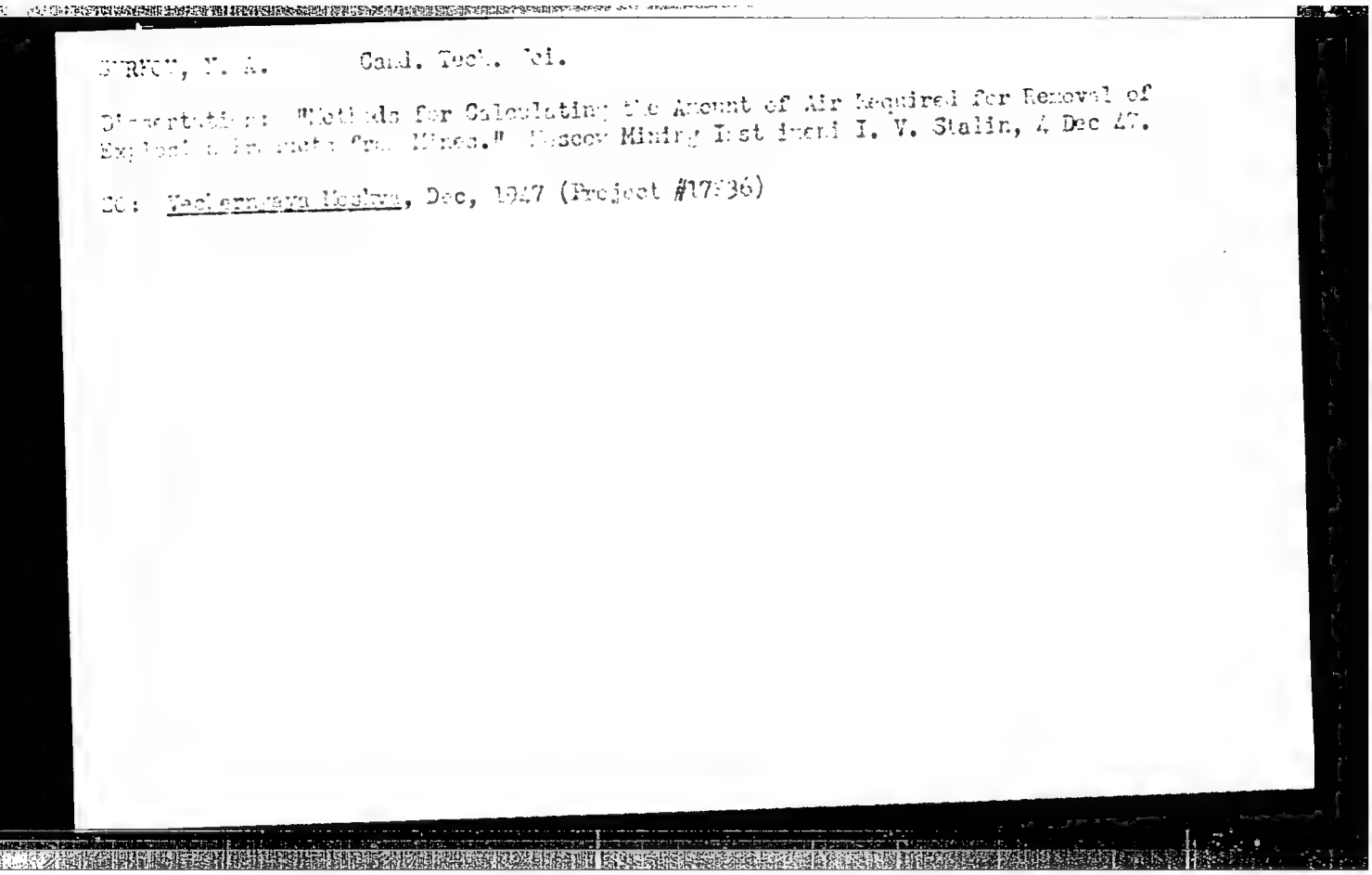
TITLE: The problem of repairability of electronic digital computers

SOURCE: Moscow. Vyssheye tekhnicheskoye uchilishche. Vychislitel'naya tekhnika, no. 5, 1966, 201-210

TOPIC TAGS: system reliability, reliability engineering, computer design, digital computer

ABSTRACT: In the overall digital computer reliability estimates the repairability factors such as the detection, removal, and prevention of failures must be included in the analysis. These in turn do not depend on the computer system organization above, but also on the capability of the maintenance personnel. The design of a computer system with a specific repairability figure is difficult since the statistical data for the new system is not available a priori. The authors make an attempt to correlate certain experience gained during the operation of a Ural-2 computer with the repairability design parameters for inclusion in future designs. Thus, the computer availability time is related to the mean restorability time which in turn is shown to depend on a number of factors: computer functional organization (i.e. whether provisions are made for executing test programs), amount of equipment redundancy and built in control circuitry, location of fault indicators,

Card 1/2



GURKOV, V. A. Cand. Tech. Sci.

Dissertation: "Methods for Calculating the Amount of Air Required for Removal of Explosive Impurities from Mines." Moscow Mining Inst imeni I. V. Stalin, 4 Dec 47.

SO: Vechernyaya Moskva, Dec, 1947 (Project #17836)

[illegible], I. A.

Dissertation: "Toxic Products Released During Explosions From Explosive Substances and Their Removal After Preliminary Blasting." Cand Tech Sci, Sverdlovsk Mining Inst, Sverdlovsk, 1953. (Referativnyy Zhurnal--Khimiya, No 5, Mar 54)

SO: SUM. 213, 19 Oct 1954

ASTASHEV, A.G.; SURKOV, M.A.; MILINSKIY, N.A.

For a widespread use of peroxide bleaching of cotton fabrics.
Tekst.prom.17 no.1:47-48 Ja '57. (MLRA 10:2)

1. Zamestitel' nachal'nika Tekhnicheskogo upravleniya Ministerstva legkoy promyshlennosti SSSR (for Astashev). 2. Glavnyy tekhnolog Tekhnicheskogo upravleniya po khimicheskoy obrabotke tkaney Ministerstva legkoy promyshlennosti SSSR (for Surkov). 3. Starshiy inzhener Tekhnicheskogo upravleniya Ministerstva legkoy promyshlennosti SSSR (for Milinskiy).
(Bleaching) (Cotton finishing) (Hydrogen peroxide)

SURKOV, N.A.

Basic trends in the development of the assortment of cotton fabrics. Tekst. prom. 24 no.9:4-6 S '64. (MIRA 17:11)

1. Glavnyy spetsialist Gosudarstvennogo komiteta po legkoy promyshlennosti pri Gosplane SSSR.

SURKOV, N.M.

USSR/Cultivated Plants - Technical. Oleaginous. Sugar-Bearing. L-5

Abs Jour : Ref Zhur - Biologiya, No 16, 25 Aug 1957, 69330

Author : Surkov, N.M.
Inst :
Title : The Results of Varietal Testing of Tobacco in Moldavia.

Orig Pub : Tabak, 1956, No 4, 51-52

Abstract : Results of varietal tests of tobacco on the Suslensk testing sector (Moldavia) are noted. The high quality of raw tobacco of the local shell variety Malovata 2613 is noted. Among the selective varieties under Moldavian conditions, the best raw tobacco is furnished by the shell varieties Tik-Kulak 235 and Trapezond 1272, and the best aromatic tobaccos are Samsun 940, Dyubak 44 and Endizhe 4. Samsun 940 and Dyubek 44 are already assigned to regions of the republic.

Card 1/1

[illegible]OV, [illegible]. N., Master Biolog Sci --(diss) "The growth and development of long-fiber flax planted in different seasons (early spring, summer & repeated planting) in Moscow oblast." Moscow, 1957, 13 pp.(Moscow Agric Acad im. K. A. Timiryazev), 110 copies. (KL, No 41, 1957, p.108)

USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing. M

Abs Jour : Ref Zhur Biol., No 12, 1958, 53711

Author : Surkov, N.N.

Inst : Moscow Agricultural Academy

Title : The Peculiarities in the Growth and Development of Long-Fibered Flax with Early Spring and Summer Sowing Schedules (Under the Condition of the Mosrovskaya Oblast').

Orig Pub : Dokl. Mosk. s.-kh. aknd. im. K.A. Timiryazeva, 1957, vyp. 28, 216-221

Abstract : Field experiments conducted during 1950-1953 at the Polevaya and L'nyanaya experimental stations of the Academy, showed that in the case of plants sown during the summer periods, vigorous growth and development begins almost from the moment of the emergence of the sprouts (in the absence of moisture deficiency) and

Card 1/2

SURKOV, N.N., kand.biolog.nauk

Reaction of fiber flax to treatment with herbicides. Izv.TSKHA no.4:7-20 '62. (MIRA 15:12)
(Flax) (Herbicides)

SURKOV, P.I.

We are improving petroleum exploitation technology. Neftianik 1 no.1: 17-18 Ja '56. (MIRA 9:7)

1.Nachal'nik vtorogo uchastka promysla No.3 upravleniya Tuymazaneft'. (Petroleum engineering)

[illegible]

Electric power plants

Application [illegible] of electrical equipment in a thermal electric power station.
[illegible]

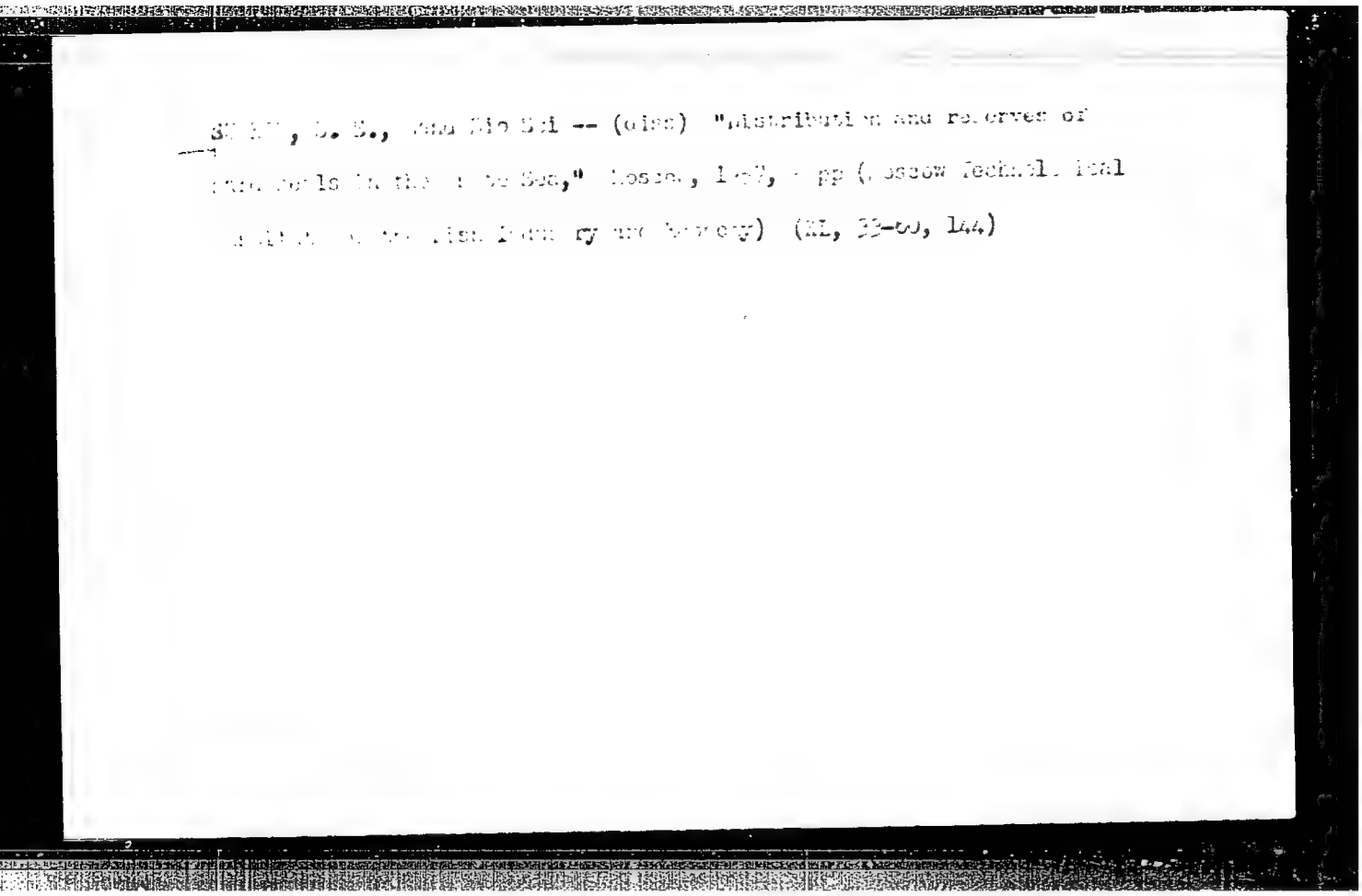
9. Monthly List of Russian Accessions, Library of Congress, November 1953, Uncl.

SH'KO/, S. K. Eng., [illegible], P. A. Eng., LI[illegible]IN, F. YU. Eng., NAYDIS, V. A. Eng., KU[illegible]AFOV, [illegible]. A. Eng., [illegible]KH'L'V, M. Y. Docent, FRUDIN'KIY, F. G. Prof.

Electric Power Distribution

Electric power supply for industrial enterprises. Elektrichestvo No. 2; 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.



[illegible], L. E., [illegible] -- (diss) "Distribution and reserves of [illegible] in the [illegible] Sea," Moscow, 1[illegible], [illegible] pp (Moscow Technol. Inst [illegible] Meat Industry and Refrig) (KL, 33-60, 144)

SURKOV S.S.

History and current problems of the study of marine mammals in the north. Trudy sov. Ikht. kom. no.12:18-22 '61. (MIRA 14:6)

1. Polyarnyy institut morskogo rybnogo khozyaystva i okeanografii.
(Marine mammals)

ALEKSEYEV, A.P., otv. red.; ADROV, N.M., spets. red.; KONSTANTINOV, K.G., spets. red.; KUTAKOV, B.G., red.; MASLOV, N.A., red.; MINDER, L.P., red.; NIKOL'SKIY, L.S., red.; STAROVOYTOV, P.A., red.; SURKOV, S.S., red.; KHRANOVSKIY, A.Yu., red.; YUDANOV, I.G., red.; VOROB'YEV, A.T., red.

[Materials of the session of the Scientific Council of the Arctic Scientific Research Institute of Marine Fisheries and Oceanography dealing with the results of research in 1962-1963] Materialy sessii Uchonogo soveta PINRO po rezul'tatam issledovanii v 1962-1963 gg. Murmansk, 1964. 237 p. (MIRA 18:1)

1. Murmansk. Polyarnyy nauchno-issledovatel'skiy i proyektnyy institut morskogo rybnogo khozyaystva i okeanografii. 2. Direktor Polyarnogo nauchno-issledovatel'skogo i proyektnogo instituta morskogo rybnogo khozyaystva i okeanografii, Murmansk (for Alekseyev). 3. Laboratoriya vosproizvodstva Polyarnogo Nauchno-issledovatel'skogo i proyektnogo instituta morskogo rybnogo khozyaystva i okeanografii, Murmansk (for Surkov). 4. Laboratoriya tekhniki promyshlennogo rybolovstva Polyarnogo nauchno-issledovatel'skogo i proyektnogo instituta morskogo rybnogo khozyaystva i okeanografii, Murmansk (for Starovoytov).

SURKOV, S.V.

Using steel forms in concreting supports for large bridges.
Avt.dor. 19 no.11:12-13 N '56. (MIRA 10:10)

1.Nachal'nik Mostostroitel'nogo rayona No.3. Glavdorstroya SSSR.

(Bridges, Concrete)
(Concrete construction--Formwork)

SURKOV, V. A.

"Development and Branching of the 'Vyatka' Rye Spike." Cand Biol Sci, Chair of Botany, Leningrad State Pedagogical Inst imeni A. I. Gertsen, Min of Education RSFSR, Leningrad, 1955. (KL No 17, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

SURKOV, V.A.

Origin and nature of branched ears in ordinary grain varieties. Fiziol.rast. 6 no.1:82-85 Ja-F '59. (MIRA 12:2)

1. Department of Botany, Smolensk Pedagogical Institute, Smolensk. (Rye) (Botany--Variation)

SURKOV, V.A.

Shoot formation in the Vyatka winter rye following vernalization at raised temperatures. Fiziol. rast. 6 no.5:592-597 S-O '59. (MIRA 13:2)

1.Department of Botany, Smolensk State Pedagogical Institute, Smolensk.
(Rye) (Vernalization)

SURKOV, V.A.

Ontogeny and morphologic nature of flower parts in gramineae. Bot. zhur. 46 no.8:1134-1143 Ag '61. (MIRA 15:1)

1. Krymskiy sel'skokhozyaystvennyy institut imeni Kalinina, uchebnoye khozyaystvo Salgirka, Simferopol'.
(Gramineae)
(Ontogeny (Botany))

SURKOV, V.A. [Surkov, V.A. [Surkov, V.O.]

Natural stages of the morphogenesis of Gramineae. Ukr. bot. zhur. 22 no.2:47-55 '65. (MIRA 18:4)

1. Khersonskiy pedagogicheskiy institut, kafedra botaniki.

RABINOVICH, V.S.; SURKOV, V.D.; SURKOVA, A.A.

Giardiasis in children. Pediatriia 37 no.7:88 Jl '59.
(MIRA 12:10)

1. Iz detskogo otdeleniya bol'nitsy imeni N.A.Semashko g.Yaroslavlya.

(GIARDIASIS)

SURKOV, V.D.

Erythrocyte and fractional erythrocyte sedimentation in pneumonia in nursing infants. Vop.okh.mat.i det. 7 no.7:27-31 Jl '62. (MIRA 15:11)

1. Iz kafedry detskikh bolezney (zav. - prof. A.I.Titova) Yaroslavskogo meditsinskogo instituta.
(PNEUMONIA) (BLOOD--SEDIMENTATION)

ETS, A.G., dotsent; SURKOV, V.D.

Nonspecific mesadenitis in children. Sov.med. 25 no.5:96-99 My '62. (MIRA 15:8)

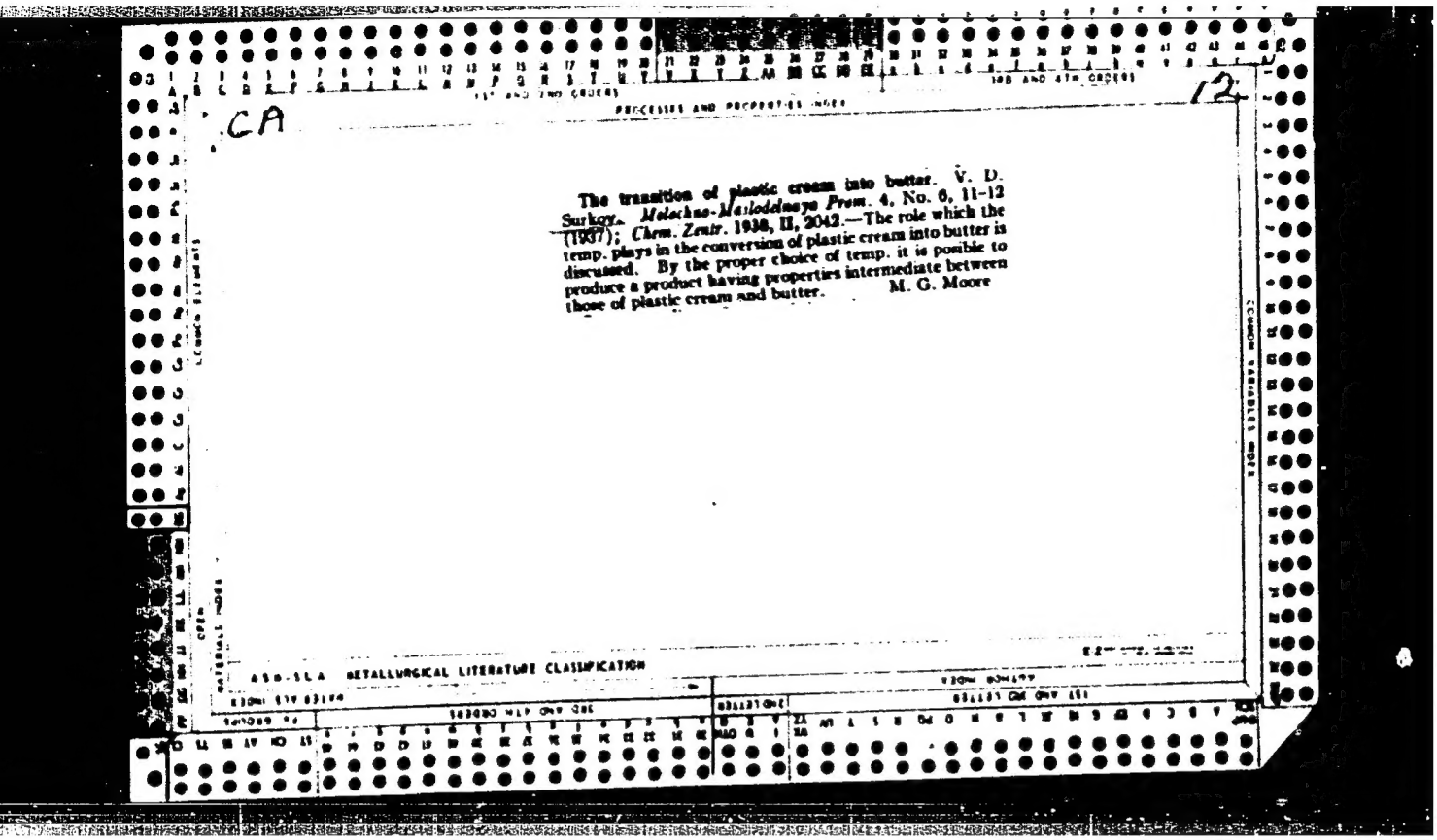
1. Iz kliniki obshchey khirurgii Yaroslavskogo meditsinskogo instituta (zav. G.A.Dudkevich) i detskogo otdeleniya Bol'nitsy imeni Semashko (zav. V.S.Rabinovich).
(LYMPHATICS--DISEASES) (MESENTERY--DISEASES)

SURKOV, V.D.

Some indices of body reactivity in pneumonias in nursing infants. Pediatriia 41 no.9:38-46 S '62. (MIRA 15:12)

1. Iz kafedry detskikh bolezney Yaroslavskogo meditsinskogo instituta (zav. kafedroy i rukovoditel' raboty - prof. A.I. Titova).

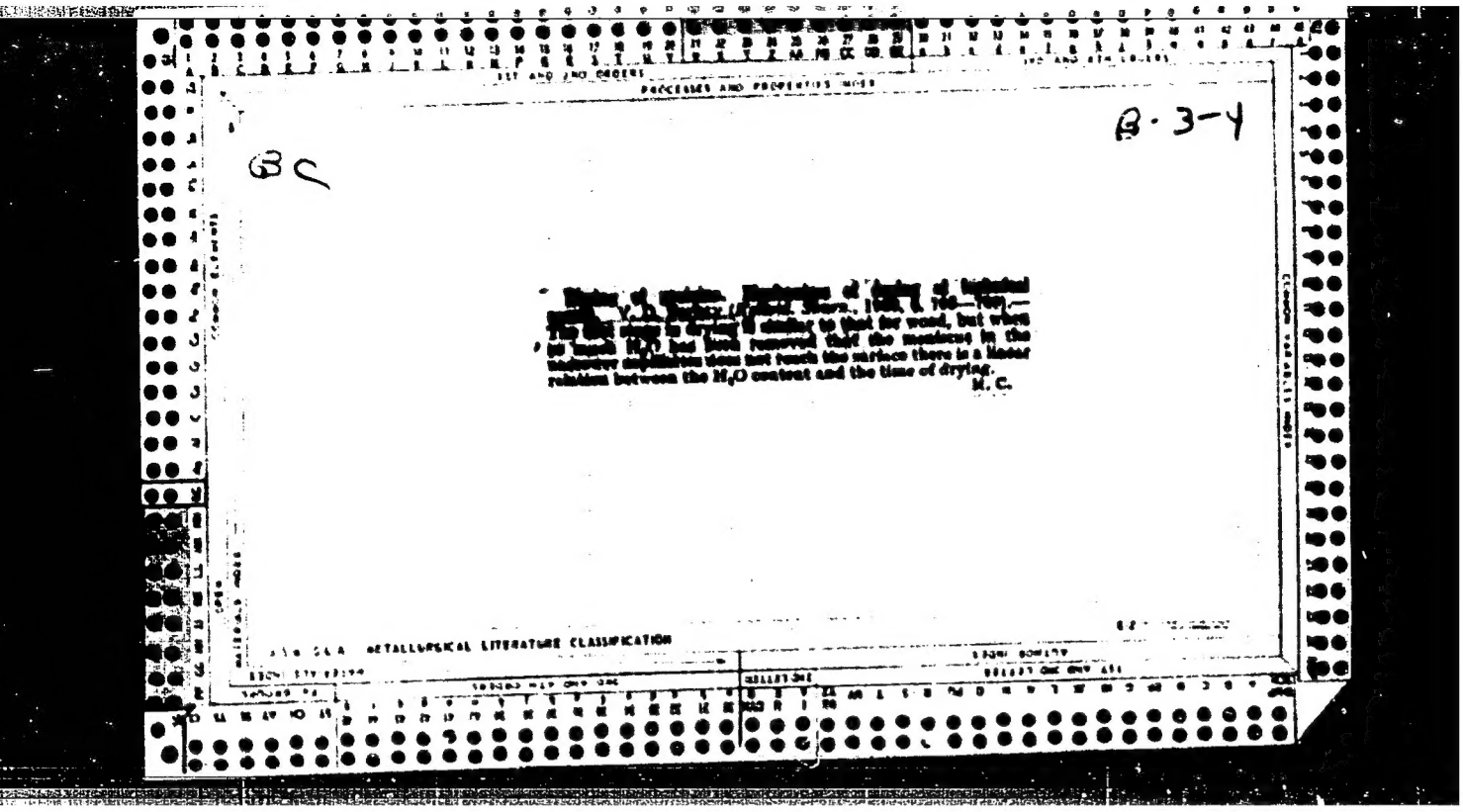
(PNEUMONIA) (BLOOD--EXAMINATION)

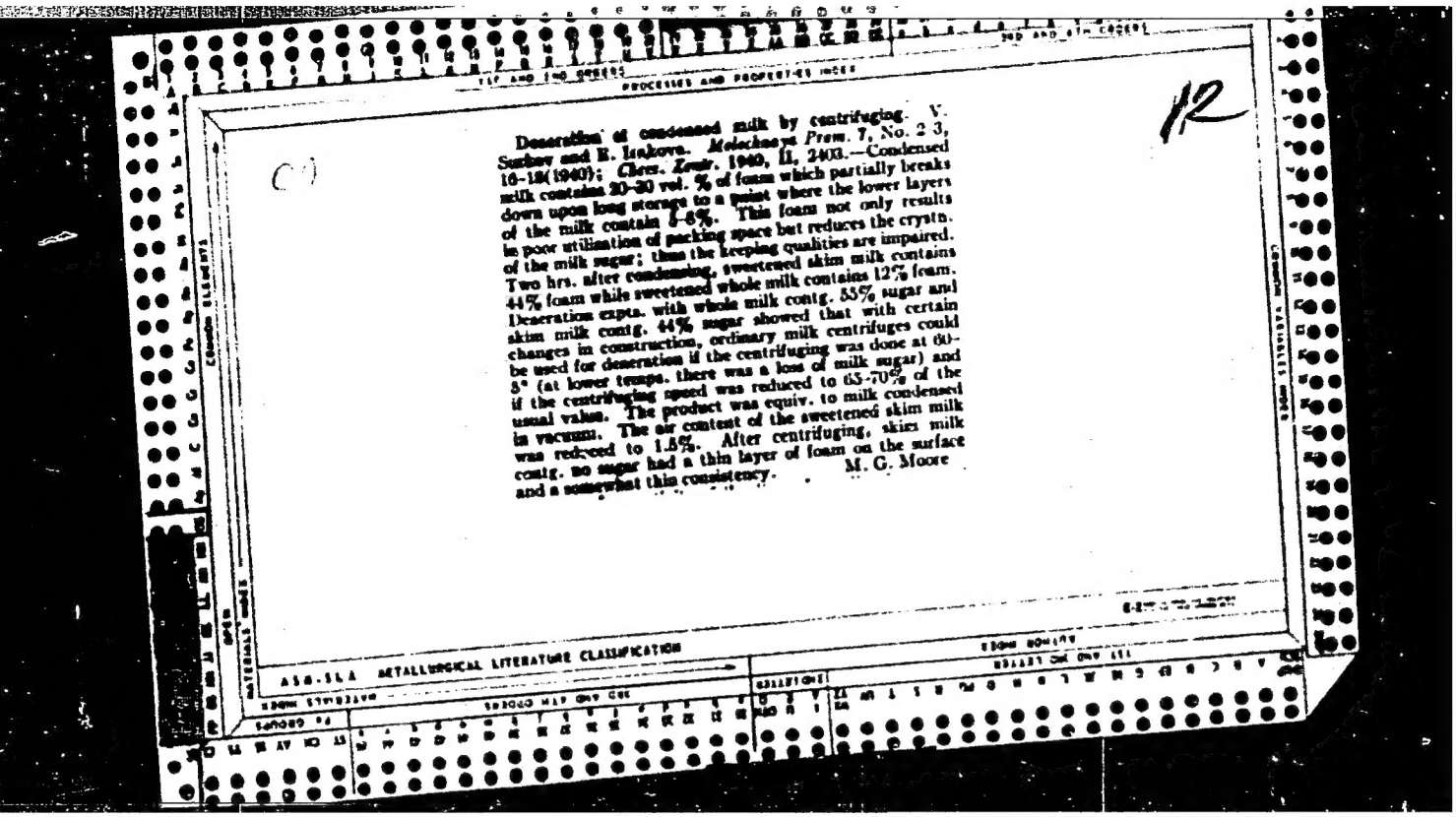


CA

12

The transition of plastic cream into butter. V. D. Surkov. *Molochno-Maslodelnaya Prom.* 4, No. 6, 11-12 (1937); *Chem. Zentr.* 1938, II, 2042.—The role which the temp. plays in the conversion of plastic cream into butter is discussed. By the proper choice of temp. it is possible to produce a product having properties intermediate between those of plastic cream and butter. M. G. Moore





Deseration of condensed milk by centrifuging. V. Sushov and E. Isakova. *Molochnaya Prom.* 7, No. 2 3, 16-18(1940); *Chem. Zentr.* 1940, II, 2403.—Condensed milk contains 20-30 vol. % of foam which partially breaks down upon long storage to a point where the lower layers of the milk contain 5-6%. This foam not only results in poor utilization of packing space but reduces the crystn. of the milk sugar; thus the keeping qualities are impaired. Two hrs. after condensing, sweetened skim milk contains 44% foam while sweetened whole milk contains 12% foam. Deseration expts. with whole milk contg. 55% sugar and skim milk contg. 44% sugar showed that with certain changes in construction, ordinary milk centrifuges could be used for deseration if the centrifuging was done at 60-5° (at lower temps. there was a loss of milk sugar) and if the centrifuging speed was reduced to 65-70% of the usual value. The product was equiv. to milk condensed in vacuum. The air content of the sweetened skim milk was reduced to 1.8%. After centrifuging, skim milk contg. no sugar had a thin layer of foam on the surface and a somewhat thin consistency.

M. G. Moore